

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
Office Action Summary	10/594,742	NARITSUKA ET AL.
	Examiner	Art Unit
	HRAYR A. SAYADIAN	2814
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
 A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>1</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 		
Status		
 1) Responsive to communication(s) filed on <u>04 December 2009</u>. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 		
Disposition of Claims		
 4) Claim(s) <u>1-12</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) <u>1-12</u> are subject to restriction and/or election requirement. 		
Application Papers		
9) The specification is objected to by the Examiner.		
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 		
Attachment(s) 1)	4) Interview Summary Paper No(s)/Mail D 5) Votice of Informal F	ate
Paper No(s)/Mail Date	6) 🚺 Other:	

DETAILED OFFICE ACTION

Requirement For Unity Of Invention

1. As provided in 37 CFR 1.475(a), a national stage application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept ("requirement of unity of invention"). Where a group of inventions is claimed in a national stage application, the requirement of unity of invention shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim. See 37 CFR 1.475(e).

2. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Species A: An embodiment described with respect to FIG. 1, wherein there is a window 2a. At least claim 2 is directed to this Species. Species B: An embodiment described with respect to FIG. 5, wherein there is a scratched trench (11).

Species A and B lack unity of invention because even though the inventions of these species require the technical feature of claim 1, the genus, this technical feature is not a special technical feature as it does not make a contribution over the prior art in view of U.S. Pat. No.

6,995,406 to "Tojo" and "Complete Guide to Semiconductor Devices," by Kwok "Ng," 2nd Edition, (2002), pp. 396 and 397.

Specifically, Tojo discloses a GaP substrate, ELO layer over the GaP layer, and active layer over the ELO layer. See, for example, column 3, line 65 to column 4, line 3, and column 5, line 4-18. And Ng discloses that a person of ordinary skill in the art at the time of the invention of this application well recognized an active layer comprising an n-type layer and a p-type layer to be suitable for use in LED.

Searching for and examining these distinct Species together causes serious burden. In the instant case, searching for the mutually exclusive characteristics of the Species requires different fields of search (including employing different search queries). Furthermore, the Species are likely to raise different non-prior art issues under 35 U.S.C. § 101 or 35 U.S.C. § 112, first paragraph, or both.

Accordingly, requiring election between the different Species is proper.

3. A complete reply to this requirement <u>must</u>:

- 1. elect an invention to be examined even though the requirement may be traversed (37 CFR § 1.143); and
- 2. list all claims reading on the elected invention, including any claims subsequently added.

An argument that all claims are allowable, or that the requirement is in error, is nonresponsive unless accompanied by an election. See, for example, M.P.E.P § 818.03(b).

To preserve a right to petition under 37 CFR § 1.144, Applicant must elect with traverse. See, for example, M.P.E.P. § 818.03(c). An untimely traversal loses the right to petition under 37 CFR § 1.144. A traversal must be presented at the time of election to be considered timely.

If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. See, for example, M.P.E.P § 818.03(a).

Should Applicant traverse on the ground that the Species are not patentably distinct, Applicant should submit evidence or identify such evidence now of record showing them to be

obvious variants or clearly admit on the record that this is the case. In either instance, if Examiner finds one of the Species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. § 103(a) of the other Species.

If claims are added after the election, Applicant must indicate which of these claims are readable on the elected invention. See M.P.E.P. § 809.02(a).

Upon the cancellation of claims to a non-elected invention, Applicant must amend the inventorship complying with 37 CFR § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Amending inventorship must be accompanied by a request under 37 CFR § 1.48(b) and include the fee required under 37 CFR § 1.17(i).

Upon the allowance of a generic claim, Applicant will be entitled to consideration of pending claims to additional Species which depend from, or otherwise require all the limitations of, an allowable generic claim as provided by 37 CFR § 1.141.

CONCLUSION

4. <u>A shortened statutory period for reply to this Office Action is set to expire **ONE** <u>MONTH from the mailing date of this Office Action</u>. Applicant is reminded of the extension of time policy as set forth in 37 CFR § 1.136(a).</u>

Any inquiry concerning this communication or earlier communications from an Examiner should be directed to Examiner Hrayr A. Sayadian, at (571) 272-7779, on Monday through Friday, 7:30 am – 4:00 pm ET.

If attempts to reach Mr. Sayadian by telephone are unsuccessful, his supervisor, Supervisory Primary Examiner Wael Fahmy, can be reached at (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available only through Private PAIR.

For more information about the PAIR system, see <u>http://pair-direct.uspto.gov</u>. The Electronic Business Center (EBC) at (866) 217-9197 (toll-free) may answer questions on how to access the Private PAIR system.

/Hrayr A. Sayadian/ Patent Examiner, Art Unit 2814